GOVERNMENT OF INDIA
NON-CONVENTIONAL ENERGY SOURCES
LOK SABHA

UNSTARRED QUESTION NO:1064
ANSWERED ON:07.12.2004
FOREIGN FUNDS FOR RENEWABLE ENERGY PROGRAMME
Appadurai Shri M.

Will the Minister of NON-CONVENTIONAL ENERGY SOURCES be pleased to state:

(a) whether some foreign institutions supporting the renewable energy programme in the country;

(b) if so, the details thereof alongwith the kind of loans assistance being given to encourage wind mills in the country;

(c) the States and Union Territory which have potential, land scape and wind velocity for the wind mills; and

(d) the total number of wind mill functioning in the country at present, State-wise?

Answer

MINISTER OF STATE OF THE MINISTRY OF NON-CONVENTIONAL ENERGY SOURCES (INDEPENDENT CHARGE) (SHRI VILAS MUTTEMWAR)

(a)&(b): Yes, Sir. Details of the loans and grants received from the foreign institutions for the renewable energy proramme during the 9th and 10th Plan Periods are given at Annexure-I of which the same for the wind energy sector are given at Annexure-II.

(c): State-wise details of the gross and technical wind power potential are given at Annexure-III.

(d): State-wise details of grid-interactive wind power installed capacity as on the 30th November, 2004 are given at Annexure-IV.

Anneuxre-I

Annexure-I referred in reply to parts (a) and (b) of the Lok Sabha Unstarred Question No. 1064 for answer on 7-12-2004 regarding Foreign Funds for Renewable Energy Programme.

Details of Loans and Grants received from Foreign Institutions during the 9th and 10th Plan Periods

Sl.No	Project	Foreign Institution	Loan a Grant b	Status
1.	Optimizing Development of Small Hydel Resources in Hilly Regions of India(Implemented by MNES)	UNDP/GEF	0 a US$7.5 million b	Completed
2.	Development of High Rate Biomethanation process as means of reducing GHG(Implemented by MNES)	UNDP/GEF	0 a US $ 5.5million b	Project under implementation since September, 1994.
3.	Indian Renewable Resources Development Project(Implemented by IREDA)	World Bank/ GEF/SDC/DANIDA	US $ 118.96 million a US $ 30 million b	Completed
4.	Carbon Emissions Reduction through Biomass Energy(Implemented by Department of Rural Development, Karnataka)	UNDP/GEF/ICEF	0 a US $ 8.0million b	Project under implementation since June, 2001.
5.	Second Renewable Energy Project (Implemented by IREDA)	World Bank/ GEF	US $ 130.0million a US $ 5.0million b	Project under implementation since January, 2001.

6. Promotion of Renewable Energy Project(Implemented by IREDA)	KfW, Germany 0 b since October, 2000.	DM 120.0 million a	Project under implementation
7. Renewable Energy Development Project (Implemented by IREDA)	Asian Development Bank 0 b	US $ 100.0 million a	Completed
8. Technical Assistance for Wind Test Station under C-WET (Implemented by MNES)	DANIDA, Denmark 0 a DKK 15.88 million b		Completed
9. Rural Energy Programme Support (Implemented by MNES)	UNDP 0 a US $ 2.8 million b		Completed
10. Renewable Energy for Rural Livelihoods (Implemented by MNES)	UNDP 0 a US $ 3.5 million b since September, 2003.		Project under implementation

MNES : Ministry of Non-Conventional Energy Sources
IREDA : Indian Renewable Energy Development Agency
C-WET : Centre for Wind Energy Technology
UNDP : United Nations Development Programme
GEF : Global Environment Facility
SDC : Swiss Development Corporation
DANIDA : Danish International Development Agency
ICEF : India Canada Environment Facility

Anneuxre-II

Annexure-II referred in reply to parts (a) and (b) of the Lok Sabha Unstarred Question No. 1064 for answer on 7-12-2004 regarding Foreign Funds for Renewable Energy Programme

International Loans and Grants to Wind Energy Sector

Sl.No	Project	Foreign Institution	Loan a Grant b	Status
1.	Renewable Energy Development Project	Asian Development Bank	US $ 40.35 million a	Completed
2.	Indian Renewable Resources Development Project	World Bank/GEF/ SDC/DANIDA	IDA-SDR 28.28 million a DANIDA-US $3.96 million a GEF-SDR-13.53 million b	Completed
3.	Promotion of Renewable Energy Project	KfW, Germany	Euro 44.16 million a since October, 2000	Project under implementation

Anneuxre-III

Annexure-III referred in reply to part (c) of the Lok Sabha Unstarred Question No. 1064 for answer on 7-12-2004 regarding Foreign Funds for Renewable Energy Programme

State-Wise Gross & Technical# Wind Power Potentials

	Gross Potential(MW)	Technical Potential (MW)
Andhra Pradesh	8275	1920
Gujarat	9675	1780
Karnataka	6620	1180
Kerala	875	605
Madhya Pradesh	5500	845
Maharashtra	3650	3040
Orissa	1700	780
Rajasthan	5400	910
Tamil Nadu	3050	1880
West Bengal	450	450
Total	45195	13390

depends on available grid capacity

Annexure-IV

Annexure-IV referred in reply to part (d) of the Lok Sabha Unstarred Question No. 1064 for answer on 7-12-2004 regarding Foreign Funds for Renewable Energy Programme

State-Wise Grid Interactive Wind Power Installed Capacity as on the 30th November, 2004

State	Total Capacity (MW)
Andhra Pradesh	101.30
Gujarat	216.18
Karnataka	266.30
Kerala	2.00
Madhya Pradesh	27.60
Maharashtra	411.25
Rajasthan	240.51
Tamil Nadu	1638.90
West Bengal	1.10
Total	2905.14